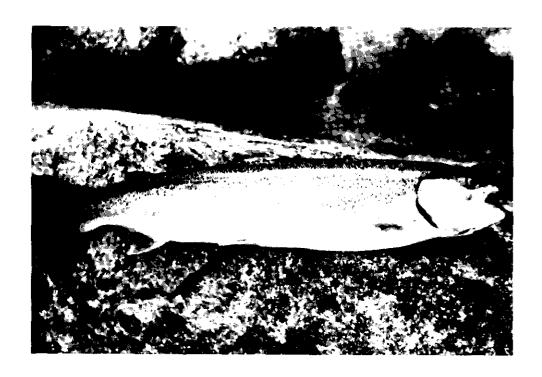


# FEDERAL AID IN FISH RESTORATION

Job Performance Report, Project F-73-R-8, Job 1 Salmon and Steelhead Investigations Estimates of the 1985 Harvest of Salmon and Steelhead (Survey)

Period Covered: March 1, 1985 — February 28, 1986



Judy Hall-Griswold Fish & Wildlife Technician

Tim Cochnauer Principal Fishery Research Biologist

May 1987

#### **TABLE OF CONTENTS**

| <u>Page</u>   |
|---|
| ABSTRACT1   |
| OBJECTIVE2  |
| TECHNIQUES USED   |
| Salmon Catch Survey   |
| FINDINGS2   |
| Salmon  |
| LIST OF TABLES  |
| Table 1. Fishing effort in Idaho chinook salmon sport fishing season, 1985 (95% confidence limits in parentheses)                       |
| Table 2. Estimated sport catch of chinook salmon in Idaho 1985 (95% confidence limits in parentheses)10                                 |
| Table 3. Idaho salmon and steelhead harvest estimates 1954-1985a11  |
| Table 4. Estimated number of days fished, and number of steelhead kept or released during Idaho's 1985 spring and fall steelhead season |
| Table 5. Estimated harvest of steelhead by month from sections of Idaho streams, 1985   |
| Table 6. Estimated steelhead harvest by fish run year, 1976-<br>98 (fish run year as calculated from<br>August 1 to July 31)            |
| Table 7. Estimated 1985 fishing pressure (angler days) for steelhead by river section, Idaho  |
| Table 8. Estimated number of steelhead trout caught and released by river section, 1985 spring and fall seasons, Idaho                  |

#### LIST OF FIGURES

| <u>Page</u>  |
|--|
| Figure 1. Questions asked during telephone interviews with salmon permit buyers in harvest survey sample, 1985 |
| Figure 2. Preliminary letter sent to steelhead permit buyers in harvest survey sample, 19854                   |
| Figure 3. Idaho 1985 chinook salmon seasons and regulations6   |
| igure 4. Idaho 1985 spring steelhead seasons and regulations12   |
| igure 5. Idaho 1985 fall steelhead seasons and regulations13   |

#### JOB PERFORMANCE REPORT

State of: Idaho Name: Salmon and Steelhead

Investigations

Project No.: F-73-R-8

Title: Estimates of the 1985

Harvest of Salmon and

Steelhead (Survey)

Period Covered: March 1, 1985 - February 28, 1986

#### **ABSTRACT**

A harvestable surplus of hatchery spring chinook salmon returned to Idaho in 1985, allowing for a limited reopening of the sport fishing season which had been closed since 1979. Anglers fished an estimated 7,193 days and harvested 2,328 spring chinook salmon. An estimated total of 728 chinook were caught and released.

The total number of steelhead landed by anglers in 1985 reached an estimated 70,417 fish. Anglers kept 34,364 steelhead and released 36,053. The estimated number of days fished by steelhead anglers was 238,296.

#### Authors:

Job No.

Judy Hall-Griswold Fish and Wildlife Technician

Tim Cochnauer Principal Fishery Research Biologist

#### **OBJECTIVE**

To obtain annual estimates of salmon and steelhead harvest by major drainages.

#### **TECHNIQUES USED**

#### Salmon Catch Survey

Because of the low number of salmon permit holders, an attempt was made to contact all permittees by telephone to obtain salmon catch imformation. An example of the questions asked during the telephone interview is displayed in Figure 1.

The telephone interviewers are trained to solicit complete replies and read from a standard script so that all questions are asked of all interviewees in the same manner. Each telephone response was entered on a data sheet and processed by computer to produce estimates of total fishing effort and harvest.

#### Steelhead Catch Survey

In 1985, steelhead harvest and angler fishing effort were estimated from the telephone survey as reported by Pollard (1985). However, due to the large number of steelhead permit holders, a random sample of 2,000 names was selected by computer from files of steelhead permit buyers for each of the spring and fall fisheries. Each survey consisted of a preliminary letter explaining the purpose of the study and questions to be asked (Fig. 2). The letter was followed within two weeks by a phone call. The telephone interviewers are trained to solicit complete replies and read from a standard script so that all questions are asked of all interviewees in the same manner.

Each telephone response was entered on a data sheet that has blanks corresponding to those on the preliminary letter. The data was processed by computer to produce estimates of total fishing effort and harvest.

#### **FINDINGS**

#### Salmon

The sport fishing season on chinook salmon was from May 25 to June 30, 1985. The salmon limit (including jacks) was set at 2 fish/day, 4 in possession and 6/season (Fig. 3).

#### INTRODUCTION

We are seeking information regarding chinook salmon fishing in Idaho during the <u>1985 spring chinook season</u> (May 25 to June 30, 1985). Future management of salmon in Idaho will be aided by complete, accurate and timely information. Your assistance in answering the following questions is requested.

|    | QUESTIONS  |
|----|--|
| 1. | Did you fish for chinook salmon in Idaho during the 1985 spring chinook sport fishing season? YesNo  |
| 2. | How many days did you fish in the Little Salmon?   |
| 3. | Did you catch one or more salmon (including fish released)?  Yes No  |
| 4. | If you caught and released salmon, how many jacks and adults did you release? # Jacks # Adults Chinook   |
| 5. | If you caught and kept chinook, now many did you harvest by date?  Date Adults Jacks  1  |
| 6. | Were you contacted at a Fish and Game check station or by a conservation officer or a creel census clerk while fishing for chinook in 1985? Which? |

Figure 1. Questions asked during telephone interviews with salmon permit buyers in harvest survey sample, 1985.





June, 1985

Dear Steelhead Angler:

We are seeking information regarding steelhead fishing in Idaho during the 1985 spring steelhead season (January through April, 1985). Future management of steelhead in Idaho will be aided by complete, accurate and timely information. Your assistance in answering the following questions is requested.

Please take a few minutes to fill in the answers to the questions below and place this letter near your telephone. PLEASE DO NOT RETURN THIS LETTER BY MAIL (unless you have no telephone.) Within ten days you will receive a telephone call asking the following questions:

| 1. | Did you fish for ste                      | eihead in Idaho | during the 198 | 5 Spring Season? |
|----|---|-----------------|----------------|------------------|
|    |   | Yes             | No             |                  |
| 2. | How many days did yo section list on back |                 |                | (See river       |
|    | Days Fished                               | River           | بعديد.         | Section          |
|    |   |                 |                | <del></del>      |
|    |   |                 |                |                  |
|    |   |                 | <del></del>    |                  |
|    |   |                 |                |                  |
| 3. | Did you catch one or                      | more steelhead  | (including fis | h released)?     |
|    |   | Yes             | No             |                  |

Figure 2. Preliminary letter sent to steelhead permit buyers in harvest survey sample, 1985.

|   | you caugh<br>ver section   |                                  |  | elhead, how  |  |  | e, by       |
|---|--|----------------------------------|--|--|--|--|-------------|
|   |  | Hatchery                         | WIId   | Ri   | ver Secti  | <u>on</u>  |             |
|   |  | <del></del>                      |  | <del></del>  |  |  |             |
|   |  |                                  |  |  |  |  |             |
|   |  |                                  |  |  |  | <del></del>  |             |
|   |  |                                  |  |  |  |  |             |
|   |  |                                  | <del></del>                                  |  |  |  |             |
|   |  |                                  |  | ad, how man  |  |  | date        |
|   | d river se   | ection? (C                       | heck dat                                     | es recorded  | on your  | steel head   |             |
|   | (  | Date                             |  | River  | <b>_</b>   | Section  | on          |
| 1   | •  |                                  |  |  | <u></u> .  |  | <del></del> |
| 2   | ·  |                                  | · <del></del>                                | <del></del>  | _  |  |             |
| 3   | ·  |                                  |  |  |  |  |             |
|   | ·  |                                  |  |  | _  |  |             |
|   |  |                                  |  |  | -  |  |             |
|   | ·  |                                  |  |  |  |  |             |
|   | ·  |                                  |  | <del></del>  | <del>-</del>   | ·  |             |
|   | 3. · <u></u><br>).   |                                  |  |  | -  |  |             |
| 10  | <del></del>  |                                  |  |  | <del></del>  |  |             |
| 10  | ·  |                                  |  | <u>, — —, — —, — — —, — — — — — — — — — — </u>   |  |  | <del></del> |
|   |  |                                  |  | Sincerely,   |  |  |             |
|   |  | ٠                                |  |  |  | -  |             |
|   |  |                                  |  | Jerry M. Co  | onley, Dir   | ector  |             |
| Snake River, be   | iow Salmon Ri  | ver                              | 01   | Salmon Riv   | ver. South Fo  | ork to Middle Fo   | ork14       |
| Snake River, aborder River Clearwater River North Fork Clear Middle Fork Clear South Fork Clear South Fork Clear Selway River Lochsa River Salmon River, by Salmon River, William | ove Salmon River, below Orof r, above Orof rwater River. erwater River rwater River elow Whitebir hitebird Creek | ver                              | 02<br>03<br>04<br>05<br>06<br>07<br>08<br>09 | Salmon Riv<br>Salmon Riv<br>Salmon Riv<br>Salmon Riv<br>Little Sal<br>North Fork<br>Lemhl Rive<br>Pahsimerol | ver, Middle F<br>ver, North Fo<br>ver, Lemhi Ri<br>ver, Pahsimer<br>ver, above th<br>imon River<br>Salmon Rive<br>er | ork to North Fork to Lemh! River to Pahsimer of River to East Fork | 70rk        |
| Salmon River, L'Salmon River, V   | Ittle Salmon :<br>inegar Creek   | to Vinegar Cree<br>to South Fork | k12<br>13                                    | Snake Rive   | er, Oxbow  |  | 27<br>28    |

#### IT IS UNLAWFUL

The following acts are unlawful by statute. They are listed here for your information. Please consult Title 36, Idaho Code, for exact wording and complete listing.

'IT IS UNLAWFUL:

To refuse to produce license or fish for inspection upon request of a conservation officer.

To fail to stop and report at checking stations that have been established to inspect licenses and fish and game.

To fish for trout with the aid of artificial light.

To put any substance not attached to a hook into the water for the purpose of attracting fish (chumming).

To possess, transport or use as bait any live fish, EZCEPT as provided by Commission regulation.

To catch any part of another person's bag limit, EXCEPT in the case of license-exempt persons fishing for salmon and sceelhead.

To transport for another or accept as a gift any game fish unless a statement signed by taker accompanies the fish, showing the number and kinds, the date taken, the taker's name, address and fishing license number.

To claim ownership to more wild game or fish taken within the State of Idaho than allowed by established possession limits.

To ship any fish by commercial carrier unless the outside of the package is marked as to the number and kinds of fish sng the package contains a written statement showing the taker's name, address and fishing license number.

To use seines, dip nets, spears, snag hooks, or any other contrivances in taking any fish from the waters of the State EXCEPT as allowed by Commission regulation. To deposit chemicals, poisons or explosives in attempting to catch or destroy fish.

To vaste game fish,

To sell fish without a permit.

To destroy or disturb traps, or remove wildlife from traps.

Consult the General Fishing Regulations for other regulations relating to all fishing.

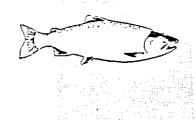


#### IS YOUR SALMON ADIPOSE-CLIPPED? If it is . . . SAVE THE HEAD!



HERE'S WHY: The missing adipose fin signals the presence of a small coded-wire tag implanted in the nose of the fish. Each tag provides valuable information. If your fish is missing its adipose fin. remove the fish's head and return it to a local conservation officer or fish and Game office (or freeze it until you can turn it in).

# 1985 IDAHO CHINOOK SALMON SEASONS & REGULATIONS



| Resident Fishing License     | \$10.50 |
|------------------------------|---------|
| Nonresident Fishing License  | \$30.50 |
| Calman Parmir (tin Paguiras) | 5 7 50  |



JERRY M. CONLEY, DIRECTOR 600 S. Walnut St. Phone J34-3700 P. O. Box 25 Boise, Idaho 63707

Figure 3. Idaho 1985 chinook salmon seasons and regulations.

#### GENERAL INFORMATION

#### LICENSES, PERMITS - GENERAL

Asyone, except those expressly exempt, must have a valid fishing license and salmon permit to fish for salmon.

Children (including nonresident children) under the age of 14 are exempt from purchasing salmon permits. They may fish without permits if they are accompanied by a valid permit holder, provided that any fish caught must be recorded on the permit holder's card and counted in the permit holder's legal bag and possession limit.

Any resident child under 14 may purchase a permit so that he may catch his or her own limit of salmon. Any person who does not qualify as a resident must have a nonresident season fishing license before purchasing a salmon permit.

In order to qualify for resident status, a person must be domiciled in the State for at least aix months.

## 1985 IDAHO SALMON FISHING REGULATIONS

13.03.018.1 - 1985 SALMOR FISHING REGULATIONS

#### - AUTHORIZATION -

In accordance with Sections 36-104(b), 36-410, 36-901, Idaho Code, it is ordered that the following regulations for the taking of chimook salmon in the State of Idaho are hereby declared to be effective May 25, 1985, and until further notice.

CRIROOK SALKON - Anadromous (ocean run) salmon of the species Oncorhynchus taken trom the Snake River drainage below Hells Canyon Dam, the Salmon River drainage and the Clearwater River drainage, excluding lakes and the North Fork of the Clearwater River above Dworshak Dam.

JACE SALMON - Chinook salmon under 20 inches in total length are commonly called jack salmon.

SALMON FISHING PERMITS - Anglers fishing for or taking chimook salmon must have a salmon permit in possession. However, when a salmon is released unharmed, as in catch-and-release fishing, the angler is dot required to make an entry on the permit.

SALMON PERMIT VALIDATION - When a chinook salmon has been hooked, landed and reduced to possession, the angler must immediately:

a. Completely remove one numbered notch from the permit; and

b. Look up the number code from the location code list and write it in the space provided; and

c. Enter the wonth and day the fish was caught.

for example, a chinook caught from the Little Salmon River on May 29 would be entered as:

| FISH | Month/Day  | Location<br>Code |
|------|------------|------------------|
|      | 5/29       | 20               |
|      | REMOVE NOT | CH               |

SNAGGING - It is unlawful to kill or retain in possessiom any salmon which has been booked other than in the head, and any salmon hooked other than in the head must be immediately released. Salmon caught in a legal danner must be either, released or killed immediately after landing.

SPECIAL REGULATIONS - It shall be unlawful to fish in any waters while having fish in possession which violate regulations for those waters.

FISHING PROBIBITED AFTER ATTAINMENT OF LIMITS - It is unlawful to continue to fish for salmon after a person has caught and reduced to possession the daily bag, possesssion or season limit.

POSSESSION AND OWNERSHIP - All fish that are hooked, landed, and not immediately released shall be counted in the limits of the person booking the fish.

#### **SEASONS & LIMITS**

The following waters are open to fishing for chinook salmon during the periods listed. Waters not specifically designated below shall remain CLOSEO to fishing for chinook salmon.

LITTLE SALMON RIVER - From a posted line at its mouth upstream to a posted line located 100 yards upstream from the mouth of Rapid River - OPEN to fishing for chinook salmon from 4:00 a.m., Saturday, May: 25. 1985 until further notice.

SMAKE RIYER - From Wild Sheep Rapids upstream to Hells Canyon Dam (approximately 6 miles) - OPEN to fishing for chimook salmon from Saturday, May 25, 1985 until further notice.

FISHING HOURS - Fishing for salmon on the Little Salmon River is permited only during the hours of 4:00 a.m. through 9:30 p.m. during the open chinook salmon season.

SALMON LIMIT - 2 per day, 4 in possession, and 6 per season. Jack salmon must be counted in the daily, possession and season limit and recorded on the salmon permit.

#### NOTICE

Only 15,000 salmon permits have been printed. They will be available on a first-come, first-served basis only. They will be soid at license vendors in Riggins, Grangeville, McCall, New Meadows, Weiser, Midvale and Cambridge, and at Fish and Game Department Offices in Lewiston, Boise and Garden City.



Figure 3. Continued.

A total of 15,000 salmon permits were made available on a first-come, first-served basis at local vendors. Out of the 2,620 permits sold, 1,696 (64.7%) permit holders were contacted in the telephone survey. A total of 2,055 anglers participated in the chinook fishery in 1985 and fished 7,193 days (Table 1). They harvested a total of 2,328 chinook salmon (88.1%) adult salmon and 10.9% jack salmon) (Table 2). The 1985 chinook salmon harvest estimate was the second lowest on record (Table 3).

#### Steelhead

Steelhead fishing seasons in 1985 were open on most waters from January 1 through April 30 and September 1 through December 31. Daily bag limits allowed from one to four fish/day, up to 10 fish in possession, and 10 to 20 fish/season (Figs. 4 and 5).

In 1985 anglers were either required (in some waters) or encouraged to release wild steelhead as determined by dorsal fin height.

A total of 34,615 steelhead permits were sold in 1985. Total estimated harvest of steelhead for the spring and fall seasons combined was 34,364, the highest on record (Tables 3 and 4). The 1985 harvest was made up of fish from the 1984-85 fish run in the spring fishing season, and of fish from the 1985-86 fish run in the fall. The fall fishery was by far the most important in terms of harvest, except on the Clearwater River drainage where harvest was greater in the spring (Table 5)., The 1984-85 run provided the largest harvest of recent years (Table 6).

Among the major drainages, the Salmon River received the most fishing pressure during the year (Table 7). However, the greatest total harvest of steelhead in 1985 occurred in the Clearwater River drainage (Table 5).

In 1985 regulations for steelhead fishing encouraged or required the release of wild steelhead. Upper portions of the Salmon River required the release of steelhead having dorsal fins measuring 57 mm or greater in height. Lower portions of the Salmon River (below Deer Creek Bridge) and the entire Snake River required the release of steelhead having dorsal fins measuring 51 mm or greater in height. In addition, all steelhead caught, hatchery or wild, prior to October 13 on the Clearwater River, had to be released. Due to the dorsal fin regulation, the catch-and-release regulations on the Clearwater River, and voluntary catch-and-release fishing elsewhere, over 36,000 steelhead were released (Table 8) as compared to 34,364 harvested.

Table 1. Fishing effort in Idaho chinook salmon sport fishing season, 1985 ( 95% confidence limits in parentheses).

|                     | Little Salmon River | Snake River | Tota!       |
|---------------------|---------------------|-------------|-------------|
| Resident anglers    |                     |             |             |
| Number              | 1,837               | 43          | 1,880       |
| Days fished         | 6,627               | 107         | 6,734       |
| Non-resident angler | <b>^</b> \$         |             |             |
| Number              | 152                 | 3           | 155         |
| Days fished         | 409                 | 5           | 414         |
| Unclassified angler | rs                  |             |             |
| Number              | 20                  | 0           | 20          |
| Days fished         | 45                  | 0           | 45          |
| All anglers         |                     |             |             |
| Number              | 2,009               | 46          | 2,055       |
| Days fished         | 7,081               | 112         | 7,193 (285) |

Table 2. Estimated sport catch of chinook salmon in Idaho, 1985 (95% confidence limits in parentheses).

|                      | Little Salmon River | Snake River | Total       |
|----------------------|---------------------|-------------|-------------|
| Resident anglers     |                     |             |             |
| Harvest              | 2,161               | 15          | 2176        |
| Release              | 641                 | 5           | 646         |
| Subtotai             | 2,802               | 20          | 2,822       |
| Non-resident angler: | s                   |             |             |
| Harvest              | 141                 | 0           | 141         |
| Release              | 82                  | 0           | 82          |
| Subtotal             | 223                 | 0           | 223         |
| Unclassified anglers | s                   |             |             |
| Harvest              | 11                  | 0           | 11          |
| Release              | 0                   | 0           | 0           |
| Subtotal             | 11                  | 0           | 11          |
| All anglers          |                     |             |             |
| Harvest              | 2,313.(125)         | 15          | 2,328.(125) |
| Release              | 723.(334)           | 5           | 728.(334)   |
| Total                | 3,036               | 20          | 3,056       |

Table 3. Idaho salmon and steelhead harvest estimates, 1954-1985a.

|      | Chinook salmon | Steelhead trout |
|------|----------------|-----------------|
|      | harvest        | harvest         |
| Year | estimate       | estimate        |
| 1954 | 15,000         | 12,000          |
| 1955 | 19,000         | 13,000          |
| 1956 | 21,000         | 8,000           |
| 1957 | 39,000         | 20,000          |
| 1958 | 24,000         | 30,000          |
| 1959 | 20,000         | 31,000          |
| 1960 | 21,000         | 30,000          |
| 1961 | 13,000         | 25,000          |
| 1962 | 12,000         | 19,000          |
| 1963 | 12,000         | 26,000          |
| 1964 | 8,000          | 18,000          |
| 1965 | Season Closed  | 20,000          |
| 1966 | 8,500          | 20,000          |
| 1967 | 6,500          | 22,500          |
| 1968 | 10,000         | 23,000          |
| 1969 | 11,500         | 15,500          |
| 1970 | 5,500          | 20,500          |
| 1971 | 3,500          | 17,500          |
| 1972 | 6,500          | 13,500          |
| 1973 | 9,500          | 10,500          |
| 1974 | 1,500          | 3,000           |
| 1975 | Season Closed  | Season Closed   |
| 1976 | Season Closed  | 2,000           |
| 1977 | 3,500          | 13,000          |
| 1978 | 7,000          | 11,500          |
| 1979 | Season Closed  | 5,500           |
| 1980 | Season Closed  | 9,000           |
| 1981 | Season Closed  | 13,000          |
| 1982 | Season Closed  | 20,500          |
| 1983 | Season Closed  | 32,000          |
| 1984 | Season Closed  | 25,000          |
| 1985 | 2,500          | 34,500          |

<sup>&</sup>lt;sup>a</sup>All figures are reported for the calendar year and rounded to the nearest 500.



### **IDAHO 1985 SPRING**

# Steelhead Seasons and Regulations — SEASONS AND LIMITS —

The following waters are open to fishing for steelhead during the periods listed. Waters not specifically designated below shall remain CLOSED to fishing for steelhead.

SALMON RIVER — From its mouth upstream to Mackay Bar pack bridge - January 1 through March 15. STEELHEAD LIMIT is 1 per day, 2 in possession, and 3 per season.

- From Mackay Bar pack bridge to 400 yards downstream from the mouth of the Pahsimeroi River January 1 through March 31. STEELHEAD LIMIT 1 per day, 2 in possession, and 3 per session.
- From 100 yards upstream from the mouth of the Pahsimeroi River upstream to Basin Creek January 1 through April 15. Catch-and-Release only.

SPECIAL LIMIT AND GEAR REGULATIONS - From the mouth of the Salmon River upstream to Deer Creek Bridge near Whitebird, only steelhead with dorsal fins measuring 2 inches or less in height may be reduced to possession. From Deer Creek Bridge upstream only steelhead with dorsal fins measuring 2½ inches or less in height may be reduced to possession. Steelhead with dorsal fins measuring in excess of these limits must always be immediately released unharmed. It shall be unlawful to fish for steelhead in the Salmon River with a barbed hook. Bending the barb down to the shank of a single, double, or treble hook is sufficient to meet this gear restriction.

It shall be unlawful to possess any steelhead with a freshly cut or mutilated dorsal fin in this area.

Steelhead are the only game fish which may be retained in possession between Horse Creek and North Fork on the Salmon River during the steelhead season.

SNAKE RIVER - From Washington state line at the confluence of the Snake and Clearwater rivers upstream to Redbird Creek (approximately 16 miles upstream from Lewiston) - January 1 through April 30. STEELHEAD LIMIT - 4 per day, 10 in possession, and 20 per season.

- From Redbird Creek upstream to Wild Sheep Rapids (approximately 6 miles downstream from Hells Canyon Dam)
   January 1 through March 31. STEELHEAD LIMIT 2 per day, 4 in possession, and 10 per season.
  - SPECIAL LIMIT AND GEAR RESTRICTIONS Only steelhead with dorsal fins measuring 2 inches or less in height may be reduced to possession from the Snake River between Redbird Creek (16 miles upstream from Lewiston on the Idaho shore) and Wild Sheep Rapids (6 miles downstream from Hells Canyon Dam), it shall be unlawful to fish for steelhead with a barbed hook in waters where the 2 inch dorsal height restriction applies. Bending the barb down to the shank of a single, double, or treble hook is sufficient to meet this gear restriction.
  - It shall be unlawful to possess any steelhead with a freshly cut or multilated dorsal fin.
  - It shall be unlawful to fish for steelhead from a boat for 150 yards immediately downstream from Hells Canyon Dam.
- From Wild Sheep Rapids upstream to Hells Canyon Dam January 1 through April 30, STEELHEAD LIMIT 2 per day, 4 in possession, and 10 per season.

CLEARWATER RIVER - From the posted boundary at the confluence with the Snake River upstream to the Clearwater River Bridge at Orofino - January 1 through April 30, EXCEPT that fishing from the shoreline along the perimeter of Dworshak National Fish Hatchery is CLOSED FOR ALL SPECIES. STEELHEAD LIMIT - 4 per day, 10 in possession, and 20 per season.

— From the Clearwater River Bridge at Orofino upstream to a posted line at the mouth of the South Fork Clearwater River - January 1 through April 15. Fishing from a raft or boat with motor attached is prohibited. STEELHEAD LIMIT - 1 per day, 1 in possession, and 3 per season.

CLEARWATER RIVER, NORTH FORK - From the mouth upstream to 100 yards below Dworshak Dam. January 1 through April 30 EXCEPT that fishing from the shoreline along the perimeter of Dworshak National Fish Hatchery is CLOSED FOR ALL SPECIES and fishing from a boat is prohibited between the mouth and Ahsahka Highway Bridge. STEELHEAD LIMIT - 4 per day, 10 in possession, and 20 per season.

CLEARWATER RIVER, SOUTH FORK - From the mouth upstream to Mt. Idaho Bridge - January 1 through April 15. STEELHEAD LIMIT - 2 per day, 4 in possession, and 10 per season.

NOTE: Daily bag and possession limits for the Snake, Salmon, and Clearwater rivers shall not be construed as cumulative limits. An angler may take a total of 20 steelhead during the spring 1985 season, provided that the bag, possession, or season limits on any individual river section are not exceeded.



## IDAHO 1985 FALL

# Steelhead Seasons and Regulations — SEASONS AND LIMITS —

The following waters are open to harvest of steelhead during the periods listed. Waters not specifically designated below shall remain CLOSED to harvest of steelhead.

SALMON RIVER — From its mouth upstream to Basin Creek (approximately 8 miles downstream from Stanley) -September 1 through December 31. STEELHEAD LIMIT is 2 per day, 4 in possession, and 10 per season.

SPECIAL LIMIT AND GEAR RESTRICTIONS - From the mouth of the Salmon River upstream to Deer Creek Bridge near Whitebird, only steelhead with dorsal fins measuring 2 inches or less in height, or steelhead which have been marked by clipping the adipose fin, as evidenced by a healed scar may be reduced to possession. From Deer Creek Bridge upstream to Basin Creek, only steelhead with dorsal fins measuring 2½ inches or less in height, or steelhead which have been marked by clipping the adipose fin, as evidenced by a healed scar may be reduced to possession. Steelhead that have not had the adipose fin clipped and with dorsal fins measuring in excess of these limits must always be immediately released unharmed. It shall be unlawful to fish for steelhead in the Salmon River with a barbed hook. Bending the barb down to the shank of a single, double, or treble hook is sufficient to meet this gear restriction. It shall be unlawful to possess any steelhead with a freshly cut or mutilated dorsal fin or adipose fin in this area.

SNAKE RIVER - From Washington state line at the confluence of the Snake and Clearwater rivers upstream to Hells Canyon Dam September 1 through December 31. STEELHEAD LIMIT: 2 per day, 4 in possession, and 10

SPECIAL LIMIT AND GEAR RESTRICTIONS - Only steelhead with dorsal fins measuring 2 inches or less in height, or steelhead which have been marked by clipping the adipose fin, as evidenced by a healed scar may be reduced to possession from the Snake River from the Idaho-Washington state line upstream to Hells Canyon Dam. Steelhead that have not had the adipose fin clipped and with dorsal fins measuring in excess of 2 inches in height must be immediately released unharmed; EXCEPT that steelhead with dorsal fins in excess of 2 inches in height, or steelhead which have been marked by clipping the adipose fin, as evidenced by a healed scar may be retained in possession between the Washington-Idaho state line and Redbird Creek (16 miles upstream from Lewiston on the Idaho shore) from November 15 through December 31 and between Wild Sheep Rapids (6 miles downstream from Hells Canyon Dam) and Hells Canyon Dam during the entire season. It shall be unlawful to fish for steelhead in these waters with a barbed hook during the time period when the 2-inch dorsal fin height restriction applies. Bending the barb down to the shank of a single, double, or treble hook is sufficient to meet this gear restriction.

It shall be unlawful to possess any steelhead with a freshly-cut or multilated dorsal fin or adipose fin. It shall be unlawful to fish for steelhead from a boat for 150 yards immediately downstream from Hells Canyon Dam.

CLEARWATER RIVER - From the posted boundary at the confluence with the Snake River upstream to the Clearwater River Bridge at Orofino - October 13 through December 31, EXCEPT that fishing from the shoreline along the perimeter of Dworshak National Fish Hatchery is CLOSED FOR ALL SPECIES. STEELHEAD LIMIT - 2 per day, 4 in possession, and 10 per season.

From the Clearwater River Bridge at Orofino upstream to a posted line at the mouth of the South Fork Clearwater River - October 13 through December 31. Fishing from raft or boat with motor attached is prohibited. STEEL-HEAD LIMIT - 2 per day, 2 in possession, and 4 per season.

CLEARWATER RIVER, NORTH FORK - From the mouth upstream to 100 yards below Dworshak Dam. October 13 through December 31, EXCEPT that fishing from the shoreline along the perimeter of Dworshak National Fish Hatchery is CLOSED FOR ALL SPECIES and fishing from a boat is prohibited between the mouth and Ahsahka Highway Bridge. STEELHEAD LIMIT - 2 per day, 4 in possession, and 10 per season.

CLEARWATER RIVER, SOUTH FORK - From the mouth upstream to Hungry Ridge Road Bridge near mile post 16 -October 13 through December 31. STEELHEAD LIMIT - 2 per day, 2 in possession, and 4 per season.

CATCH-AND-RELEASE FISHING FOR STEELHEAD - Except for the Middle Fork Salmon River and its tributaries - it is legal to fish for steelhead on a catch-and-release basis in any water open to fishing for other species provided that only artificial lures or flies with single barbless hooks are permitted when fishing for steelhead and all steelhead caught are immediately released unharmed. A valid steelhead permit is required when catch-and-release fishing for steelhead.

NOTE: Daily bag, possession and season limits for the Snake, Salmon, and Clearwater rivers shall not be construed as cumulative limits. An angler may take a total of 10 steelhead during the fall 1985 season, provided that the bag, possession, or season limits on any individual river section are not exceeded.

Table 4. Estimated number of days fished, and number of steelhead kept or released during Idaho's 1985 spring and fall steelhead season.

|   | Spring season | Fall season | Total   |
|---|---------------|-------------|---------|
| Number of days fished                   | 61,972        | 176,324     | 238,296 |
| Number of steelhead caught and released | 9,180         | 26,873      | 36,053  |
| Number of stee!head caught and kept     | 13,642        | 20,722      | 34,364  |

Table 5. Estimated harvest of steelhead by month from sections of Idaho streams, 1985.

|   | Jan.      | Feb.      | Har.       | Apr.      | Spring Total | Sept.      | Oct.         | Nov.         | Dec.       | Fall Unknown | Fall Total     | Year Total      |
|---|-----------|-----------|------------|-----------|--------------|------------|--------------|--------------|------------|--------------|----------------|-----------------|
| Lower Clearwater                          | 1,518     | 2,033     | 4,596      | 801       | 8,948        | 14         | 2,535        | 2,078        | 1,299      | 243<br>27    | 6,169<br>527   | 15,117<br>1,022 |
| Upper Clearwater<br>North Fork Clearwater | 67<br>138 | 80<br>116 | 277<br>828 | 71<br>828 | 495<br>1,910 | 0<br>14    | 0<br>147     | 67<br>33     | 433<br>21  | 0            | 215            | 2,125           |
| Middle Fork Clearwater                    | 120       | 110       | 8          | 17        | 25           | 0          | 0            | ő            | Ô          | Ŏ            | 0              | 25              |
| South Fork Clearwater                     |           | 17        | 210        | 57        | <u> 284</u>  | _0         | 0            | 0            | 0          | _29          | 29             | 313             |
| Subtotal                                  | 1,723     | 2,246     | 5,919      | 1,774     | 11,662       | 28         | 2,682        | 2,178        | 1,753      | 299          | 6,940          | 18,602          |
| Lower Snake                               | 326       | 259       | 151        | 44        | 780          | 167        | 530          | 743          | 387        | 54           | 1,881          | 2,661           |
| Upper Snake                               | 57        | 31        | 97         | <u>8</u>  | 193          | <u>-,0</u> | 297          | 267          | 151        | · <u>40</u>  | 755            | 948             |
| <b>Subtotal</b>                           | 383       | 290       | 248        | 52        | 973          | 167        | 827          | 1,010        | 538        | 94           | 2,636          | 3,609           |
| Salmon River Sec. 1                       | 178       | 84        | 26         | 8         | 296          | 119        | 721          | 311          | 96         | 43           | 1,290          | 1,586           |
| 2 2                                       | 44        | 62        | 62         | 22        | 190          | 114        | 233          | 187          | 64         | 86           | 684            | 874             |
| 3   | 17        | 4         | 35         |           | 56           | 205        | 843          | 454          | 71         | 29           | 1,602          | 1,658<br>1,397  |
| 4   | 4         | 8         | 30         |           | 42           | 0<br>265   | 450          | 576<br>1.945 | 329<br>220 | 0<br>126     | 1,355<br>5,257 | 5,513           |
| 5   | 13<br>13  | 110<br>17 | 125<br>125 | 8         | 256<br>155   | 200        | 2,701<br>154 | 201          | 0          | 29           | 384            | 539             |
| 0<br>7                                    | 13        | 17        | 125        | 4         | 12           | . 0        | 137          | 0            | ŏ          | ő            | Ö              | 12              |
| 8   |           |           | _==        |           | 0            | 0          | 0            | 0            | 0          | 0            | 0              | 0               |
| Subtotal                                  | 269       | 289       | 407        | 42        | 1,007        | - 703      | 5,102        | 3,674        | 780        | 313          | 10,572         | 11,579          |
| Boise River                               | 0         | 0         | 0          | 0         | 0            | 0          | 100          | 188          | 152        | 134          | <u>574</u>     | <u>574</u>      |
| Statewide Total                           | 2,375     | 2,825     | 6,574      | 1,868     | 13,642       | 898        | 8,711        | 7,050        | 3,223      | 840          | 20,722         | 34,364          |

7

Table 6. Estimated steelhead harvest by fish run year, 1976-85 (fish run year is calculated from August 1 to July 31).

|                         | Fish run year  |           |       |          |             |           |        |             |                  |
|-------------------------|----------------|-----------|-------|----------|-------------|-----------|--------|-------------|------------------|
| Stream or section       | 76-77          | 77-78     | 78-79 | 79-80    | 80-81       | 81-82     | 82-83  | 83-84       | 84-85            |
| Salmon-1                | 627            | 837       | c.s.  | 340      | 663         | 1,281     | 1,583  | 1,457       | 1,358            |
| Salmon-2                | 353            | 1,039     | C.S.  | 257      | 512         | 879       | 962    | 910         | 730              |
| Salmon-3                | 354            | 1,055     | C.S.  | 342      | 1,339       | 1,715     | 1,004  | 877         | 470              |
| Salmon-4                | 710            | 1,718     | C.S.  | 548      | 1,348       | 1,781     | 1,656  | 1,863       | 888              |
| Salmon-5                | 711            | 2,886     | 162   | 1,024    | 2,670       | 3,165     | 5,991  | 9,586       | 2,327            |
| Salmon-6                | 91             | 130       | 136   | 124      | 679         | 600       | 1,591  | 2,822       | 407              |
| Salmon-7                | 25             | 12        | c.s.  | 8        | 25          | 41        | 156    | 621         | 48               |
| Salmon-8                | 12             | 40        | C.S.  | C.S.     | C.S.        | C.S.      | 305    | 629         | 108              |
| Salmon unknown          | NA             | NA        | 12    | 168      | 230         | 303       | NA     | NA          | NA               |
| Salmon total            | 2,883          | 7,717     | 310   | 2,811    | 7,466       | 9,765     | 13,248 | 18,765      | 6,336            |
| S.F. Salmon             | C.S.           | C.S.      | c.s.  | c.s.     | c.s.        | c.s.      | c.s.   | c.s.        | C.S.             |
| M.F. Salmon             | C.S.           | C.S.      | C.S.  | C.S.     | C.S.        | C.S.      | C.S.   | C.S.        | C.S.             |
| Other Salmon tribs.     | C.S.           | C.S.      | c.s.  | C.S.     | <u>c.s.</u> | C.S.      | C.S.   | <u>c.s.</u> | <u>C.S.</u>      |
| Lower Clearwater        | c.s.           | NA        | 1,921 |          | 3,523       | 354       | 9,218  | 6,165       | 18,024           |
| Upper Clearwater        | C.S.           | NA        | 253   |          | 156         | 31        | 1,402  | 687         | 1,233            |
| Clearwater unknown      | NA             | NA        | 125   |          | 217         | 12        | 0      | 0           | NA               |
| N.F. Clearwater         | 0              | NA        | 484   |          | 256         | 144       | 1,201  | 414         | 2,216            |
| M.F. Clearwater         | 0              | 0         | C.S.  |          | C.S.        | C.S.      | Ċ.S.   | C.S.        | 25.              |
| Other Clearwater tribs. | 0              | 0         | C.S.  |          | c.s.        | C.S.      | C.S.   | C.S.        | 284 <sup>b</sup> |
| Clearwater total        | $\overline{0}$ | 14,157a   | 2,783 | C.S.     | 4,152       | 541       | 11,821 | 7,266       | 21,782           |
| Lower Snake             | 96             | NA        | c.s.  | 17       | 358         | 484       | 1,535  | 1,024       | 3,319            |
| Upper Snake             | 50             | NA        | C.S.  | 7        | 100         | 126       | 1,308  | 1,046       | 553              |
| Snake total             | 146            | NA        | 0     | 24       | 458         | 610       | 2,843  | 2,070       | 3,872            |
| Unknown streams         | <u>66</u>      | <u>50</u> | 3     | <u>4</u> | <u>NA</u>   | <u>NA</u> | NA     | <u>NA</u>   | NA               |
| STATE TOTALS            | 3,095          | 21,924    | 3,096 | 2,839    | 12,076      | 10,916    | 27,912 | 28,101      | 31,990           |

 $<sup>^{\</sup>rm a}$  Includes mainstem Clearwater and North Fork Clearwater. C.S.denotes closed season.

NAdenotes data not available

bSouth Fork Clearwater River.

Table 7. Estimated 1985 fishing pressure (angler days) for steelhead by river section, Idaho.

| River section          | Spring season | Fall season  | Total      |
|------------------------|---------------|--------------|------------|
| Lower Clearwater       | 31,707        | 35,788       | 67,495     |
| Upper Clearwater       | 3,502         | 683          | 4,185      |
| North Fork Clearwater  | 6,595         | 1,802        | 8,397      |
| Middle Fork Clearwater |               | 1,002        | 84         |
| South Fork Clearwater  | 2,145         | 450          | = :        |
| South Fork Clodingle   | _2,147        | 400          | 2,595      |
| Clearwater subtota     | al 44,033     | 38,723       | 82,756     |
| Lower Snake            | 3,753         | 16,324       | 20,077     |
| Upper Snake            | 1,401         | <u>5,773</u> | 7,174      |
| Snake subtotal         | 5,154         | 22,097       | 27,251     |
| Salmon 1               | 1,611         | 13,445       | 15,056     |
| Salmon 2               | 2,389         | 9,793        | 12,182     |
| Salmon 3               | 643           | 15,734       | 16,377     |
| Salmon 4               | 769           | 11,761       | 12,530     |
| Salmon 5               | 3,605         | 48,177       | 51,782     |
| Salmon 6               | 3,067         | 7,700        | 10,767     |
| Salmon 7               | 523           | 1,448        | 1,971      |
| Salmon 8               | <u> 178</u>   | 670          | <u>848</u> |
| Salmon R. subtota      | 12,785        | 108,728      | 121,513    |
| Little Salmon River    | 0             | 308          | 308        |
| North Fork Salmon Rive | ər O          | 195          | 195        |
| Boise River            | o             | 6,273        | 6,273      |
| TOTAL                  | 61,972        | 176,324      | 238,296    |

Table 8. Estimated number of steelhead trout caught and released by river section, 1985 spring and fall seasons, Idaho.

| Estimated Stream section  | number of steelhead<br>Spring              | trout<br>Fall  | caught and | released<br>Total  |
|---|--|--|------------|--|
| Lower Clearwater Upper Clearwater North Fork Clearwater Middle Fork Clearwater South Fork Clearwater                                    | 5,251<br>465<br>339<br>13<br>44            | 7,332<br>200<br>709<br>200<br>0                            |            | 12,583<br>665<br>1,048<br>213<br>44                          |
| Subtotal Clearwater   | 6,112                                      | 8,441  |            | 14,553   |
| Lower Snake River<br>Upper Snake River  | 474<br>237                                 | 3,896<br>906   |            | 4,370<br>1,143   |
| Subtotal Snake  | 711  | 4,802  |            | 5,513  |
| Salmon Section 1 Salmon Section 2 Salmon Section 3 Salmon Section 4 Salmon Section 5 Salmon Section 6 Salmon Section 7 Salmon Section 8 | 680<br>349<br>97<br>151<br>643<br>420<br>4 | 1,788<br>794<br>2,342<br>1,826<br>6,237<br>320<br>0<br>101 |            | 2,468<br>1,143<br>2,439<br>1,977<br>6,880<br>740<br>4<br>114 |
| Subtotal Salmon   | 2,357                                      | 13,408   |            | 15,765   |
| Boise River   | 0  | 222  |            | 222  |
| TOTAL   | 9,180                                      | 26,873   |            | 36,053   |

Submitted by:

Judy Hall-Griswold Fish & Wildlife Technician

Tim Cochnauer Principal Fishery Research Biologist Approved by:

IDAHO DEPARTMENT OF FISH AND GAME

erry M. Conley, Director

David L. Hanson, Chief Bureau of Fisheries

Dave Ortmann

Fishery Research Manager